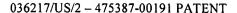
FEB 2 1 2006 W

PTO/SB/21 (09-04) Approved for use through 07/31/2006, OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to collection of information unless it displays a valid OMB control number. Application Number 10/551,735 TRANSMITTAL Filing Date September 29, 2005 First Named Inventor **FORM** Guillermo J. Tearney Art Unit To be assigned **Examiner Name** To be assigned (to be used for all correspondence after initial filing) Attorney Docket Number 036217/US/2 - 475387-00191 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify **Terminal Disclaimer** Extension of Time Request PTO-1449 form with 31 references and Request for Refund **Express Abandonment Request** Return Receipt Postcard CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Dorsey & Whitney, L.L.P. Signature Printed name Gary Abelev, Esq. Date Reg. No. February 17, 2006 Reg. No. 40,479 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature Date February 17, 2006 Gary Abelev, Esq. Typed or printed name

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Guillermo J. Tearney et al.

Serial No. : 10/551,735

Filed: September 29, 2005

Entitled : SPECKLE REDUCTION IN OPTICAL COHERENCE

TOMOGRAPHY BY PATH LENGTH ENCODED ANGULAR

COMPOUNDING

Group Art Unit : To be determined

Examiner : To be determined

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 I hereby certify that this document is being sent via First Class U. S. mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on this day of February 17, 2006.

(Signature)

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the United States patent references listed on the Form PTO-1449 are not enclosed, but the PCT/foreign/non-patent references are enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under

036217/US/2 - 475387-00191 PATENT

United States law, applicants reserve the right to present to the Office the relevant facts and law

regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the

patentability of the disclosed invention over the listed documents, should the documents be

applied against the claims of the present application.

This submission is being filed before any action by the U.S. Patent and

Trademark Office on the merits. Therefore, applicants do not believe that any fee is due in

connection with the submission of this paper. However, if any fee is due, or if any overpayment

has been made, the Commissioner is authorized to charge any such fee or credit any

overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

DORSEY & WHITNEY, LLP

Gary Abelev

PTO Reg. No. 40,479

Attorneys for Applicants

(212) 415-9371

4818-6089-4976\1

Page 1 of 4

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office

Atty. Docket No. 036217/US/2 – 475387-00191

Serial No. 10/551,735

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

FEB 21 2006 B

Applic	cant(s)
Milen	Shishkov

Filing Date September 29, 2005

Group
To be assigned

U.S. PATENT DOCUMENTS

*Exam. Init.				Docun	nent No	ο.			Date	Name	Cla ss	Subclass	Filing Date if Appropriate
		5	4	9	1	5	2	4	February 13, 1996	Hellmuth et al.			
		6	6	8	0	7	8	0	January 20, 2004	Fee			
	2003	0	1	3	5	1	0	1	July 17, 2003	Webler			
		6	9	8	0	2	9	9	December 27, 2005	de Boer			
		6	1	6	6	3	7	3	December 26, 2000	Mao			
		6	4	6	9	8	4	6	October 22, 2002	Ebizuka et al.			
		5	6	2	3	3	3	6	April 22, 1997	Raab et al.			
		5	2	6	2	6	4	4	November 16, 1993	Maguire			
		5	1	2	7	7	3	0	July 7, 1992	Brelje et al.			
		5	2	4	8	8	7	6	September 28, 1993	Kerstens et al.			
-		5	3	0	4	8	1	0	April 19, 1994	Amos	1		
		5	4	5	0	2	0	3	September 12, 1995	Penkethman			
		5	4	5	9	3	2	5	October 17, 1995	Hueton et al.			
		5	5	2	6	3	3	8	June 11, 1996	Hasman et al.			
		5	6	0	0	4	8	6	February 4, 1997	Gal et al.			
		5	6	9	8	3	9	7	December 16, 1997	Zarling et al.		 	<u> </u>
		5	7	8	5	6	5	1	July 28, 1998	Kuhn et al.			
		5	8	8	7	0	0	9	March 23, 1999	Mandella et al.			
-		5	0	4	5	9	3	6	September 3, 1991	Lobb et al.			
		5	2	9	1	8	8	5	March 8, 1994	Taniji et al.			
		5	2	9	3	8	7	3	March 15, 1994	Fang			
		5	0	6	5	3	3	1	November 1991	Vachon et al.		· · · · · · · · · · · · · · · · · · ·	
	2001	0	0	4	7	1	3	7	November 2001	Moreno et al.			
	2002	0	0	1	6	5	3	3	February 7, 2002	Marchitto et al.		 	
		6	8	1	6	7	4	3	November 9, 2004	Moreno et al.			

Examiner	Date Considered	

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

				1]	Page 2 of 4		
Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT								MENT	Atty. Do 036217/0 00191	cket No. JS/2 – 475387-		Serial No. 10/551,735			
BY APPLICANT (Use several sheets if necessary)								ry)		Applicant(s) Milen Shishkov					
•			<u> </u>							Filing Da Septemb	ate er 29, 2005		Group To be assig	gned	
	I	6	3	2	4	4	T 1	9	Novemb	er 27, 2001	Guzelsu et al.		T		
		6	5	6	4	0	8	9	May 13,		Izatt et al.				
		6	1	9	8	9	5	6	March 6,		Dunne, Shane	-	<u> </u>		
		5	7	3	5	2	7	6	April 7,	1998	Lemelson, Jerome	e			
			\Box												
								FORI	EIGN PAT	ENT DOCU	JMENT				
				Docun	nent N	·o.				Date	Country	Class	SubClass	<u>Translator</u> Yes No	
	0	4	1	0	5	5	9	8		er 9, 2004	WIPO			103 110	
		OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.) Marc Nikles et al., "Brillouin gain spectrum characterization in single-mode optical fibers", Journal of Lightwave Technology 1997, 15 (10): 1842-1851. Tsuyoshi Sonehara et al., "Forced Brillouin Spectroscopy Using Frequency-Tunable Continuous-Wave Lasers", Physical Review Letters 1995, 75 (23): 4234-4237. Hajime Tanaka et al., "New Method of Superheterodyne Light Beating Spectroscopy for Brillouin-Scattering Using Frequency-Tunable Lasers", Physical Review Letters 1995, 74 (9): 1609-1612. Webb RH et al. "Confocal Scanning Laser Ophthalmoscope", Applied Optics 1987, 26 (8): 1492-1499. Andreas Zumbusch et al. "Three-dimensional vibrational imaging by coherent anti-Stokes Raman scattering", Physical Review Letters 1999, 82 (20): 4142-4145. Katrin Kneipp et al., "Single molecule detection using surface-enhanced Raman scattering (SERS)", Physical Review Letters 1997, 78 (9): 1667-1670.									ontinuous- or Brillouin- 609-1612. (8): 1492- kes Raman				
			K	J. Ko	ski et	t al., '	"Bril	louin	imaging"	Applied Ph	ysics Letters 87, 2	2005.			
Examine	er	<u> </u>	.1						Dat	te Considerec	1				

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

		Page 3 of 4			
Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT	Atty. Docket No. 036217/US/2 – 475387- 00191	Serial No. 10/551,735			
BY APPLICANT (Use several sheets if necessary)	Applicant(s) Milen Shishkov				
•	Filing Date September 29, 2005	Group To be assigned			
Boas et al., "Diffusing temporal light	correlation for burn diagnosis", §	SPIE, 1999, 2979:468-477.			
David J. Briers, "Speckle fluctuations Optical Engineering, 1993, 32(2):277-		ons and applications",			
Clark et al., "Tracking Speckle Pattern	ns with Optical Correlation", SPI	<u>E</u> , 1992, 1772:77-87.			
Facchini et al., "An endoscopic system	ispacement and decorrelation: application in mechanics", hanical behavior of cortical bone as inferred from laser speckle ls Research, 1998, 39(3):373-379.				
Hrabovsky, M., "Theory of speckle di SPIE, 1998, 3479:345-354.					
Sean J. Kirkpatrick et al., "Micromecl data", Journal of Biomedical Material					
Sean J. Kirkpatrick et al., "Laser spec 3598:121-129.	kle microstrain measurements in	vascular tissue", SPIE, 1999,			
Loree et al., "Mechanical Properties of and Thrombosis, 1994, 14(2):230-234		Lipid Pools", Arteriosclerosis			
Podbielska, H. "Interferometric Metho	ods and Biomedical Research", §	SPIE, 1999, 2732:134-141.			
Richards-Kortum et al., "Spectral diag American Heart Journal, 1989, 118(2)		optical fiber laser catheter",			
Ruth, B. "blood flow determination by 9:21-45.	y the laser speckle method", Int J	Microcirc: Clin Exp, 1990,			
Shapo et al., "Intravascular strain ima Ultrasonics Symposium 1996, 2:1177		geneous Phantom", IEEE			
Shapo et al., "Ultrasonic displacemen array", IEEE Ultrasonics Symposium	• •	arteries with a catheter			
——————————————————————————————————————					
Examiner Dat	te Considered				

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

• • •	•		Page 4 of 4				
(REV. 2-82) Paten INFORMATIO	S. Department of Commerce at and Trademark Office ON DISCLOSURE STATEMENT	Atty. Docket No. 036217/US/2 – 475387- 00191	Serial No. 10/551,735				
	BY APPLICANT everal sheets if necessary)	Applicant(s) Milen Shishkov					
		Filing Date September 29, 2005	Group To be assigned				
	Thompson et al., "Imaging in scatterin 14(9):2269-2277.	ng media by use of laser speckle'	', Opt. Soc. Am. A., 1997,				
	Thompson et al., "Diffusive media cha 36(16):3726-3734.	aracterization with laser speckle'	', Applied Optics, 1997,				
	Tuchin, Valery V., "Coherent Optical Dynamics," Journal of Biomedical Op	Al Techniques for the Analysis of Tissue Structure and Optics, 1999, 4(1):106-124.					
	M. Wussling et al., "Laser diffraction Biochim, Acta, 1986, 45(1/2):S 23-S		and heart muscle", Biomed,				
	T. Yoshimura et al., "Statistical prope 3(7):1032-1054	rties of dynamic speckles", <u>J. O</u> p	ot. Soc. Am A. 1986,				
	Zimnyakov et al., "Spatial speckle con Applied Optics 1997, 36(22): 5594-56	· · · · · · · · · · · · · · · · · · ·	ue structure monitoring",				
	Zimnyakov et al., "A study of statistical properties of partially developed speckle fields as applied to the diagnosis of structural changes in human skin", Optics and Spectroscopy, 1994, 76(5): 747-753.						
	Zimnyakov et al., "Speckle patterns polarization analysis as an approach to turbid tissue structure monitoring", SPIE 1999, 2981:172-180.						
	Ramasamy Manoharan et al., "Bioche using FT-IR microspectroscopy", Ath						
224 6560 120011	N.V. Salunke et al., "Biomechanics of Engineering 1997, 25(3):243-285.	f Atherosclerotic Plaque" <u>Critica</u>	l Reviews™ in Biomedical				

4824-6560-1280\1

Examiner Date Considered

^{*} Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.